

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

aTS1577
.A3U52

U.S. DEPT. OF AGRICULTURE
NAT'L AGRIC. LIBRARY
JAN 25 '74

REPORT NO. 11

PROCUREMENT SECTION
CURRENT SERIAL RECORDS

Cotton Fiber and Processing Test Results

CROP of

1970



Consumer and Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38117 January 8, 1971

This is the eleventh of a series of reports of fiber and processing test results from the 1970 cotton crop. Subsequent reports in this series will follow at approximately two-week intervals during the harvesting season, and will be summarized in a comprehensive report at the end of the season. This series will present data on the same subject as AID 344, Summary of "Cotton Fiber and Processing Test Results, Crop of 1969, May 1970." These reports are published by the Standardization Section, Cotton Division, Consumer and Marketing Service, U. S. Department of Agriculture, Memphis, Tennessee.

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1970

Discussion of Test Results

Cotton testing laboratories of the Consumer and Marketing Service, USDA, report that average values for fiber and processing test results for all medium staple samples tested through January 1, 1971 show no significant changes from last year except for yarn strength. Average yarn strength is lower in 1970 crop than in the 1969 crop.

Southwestern short staple samples are longer, coarser and stronger than a year ago. Waste content is lower. Yarns spun from these samples are stronger with fewer imperfections. Average spinning potential yarn number is higher than last season.

No additional Southeastern medium staple samples were received during this report period.

South Central medium staple samples are shorter and weaker than a year ago. Yarns spun from these samples are weaker and show more imperfections.

Southwestern medium staple samples are longer than last year. Picker and card waste is lower. Yarn quality is about the same. Average spinning potential yarn number is higher than a year ago.

Western medium staple samples are finer and weaker than a year ago. Picker and card waste is lower. Yarns spun from these samples show more imperfections than last year.

Western long staple samples are finer and stronger at 1/8-inch gage than last year. Trash content is higher. Yarns spun from these samples show lower appearance grades and more imperfections. Average spinning potential yarn number is lower than in 1969.

No additional Western extra long staple, upland, samples were received during this report period.

Western extra long staple, American Pima, samples are longer, finer, and stronger at 1/8-inch gage than last season. Yarns spun from these samples are stronger and show more imperfections.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States
1/
through January 1, 1971

Staple group Area, and Crop year	Processing test results												
	Lots tested	Fiber test results						Processing test results					
		Fibrograph		Mike fine- ness	Fiber strength		S A nonlint	P & C waste	Yarn quality			Spin. Potent.	
		2.5% span	50/2.5 unif.		Zero gage	1/8" gage			Skein str.	Appear- ance	Imperf- ections		
No.	Inches	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	Lbs.	Index	No.	Yarn No.		
Short Staple: Southwest	61	0.92	45	4.1	83	20.0	3.8	7.6	87	112	34	39	
	52	0.94	46	4.4	86	21.0	3.3	6.0	92	114	29	44	
Medium Staple: Southeast	91	1.09	46	4.6	83	22.9	3.3	7.1	104	101	22	60	
	83	1.07	45	4.4	83	22.6	3.6	6.7	102	101	18	60	
South Central	195	1.10	45	4.6	84	22.8	3.0	6.5	107	111	19	61	
	161	1.08	45	4.5	82	22.3	3.2	6.2	101	107	21	61	
Southwest	64	1.04	45	4.2	86	22.5	3.3	6.8	106	110	29	57	
	61	1.07	46	4.3	86	22.8	3.2	6.2	105	114	28	63	
West	76	1.10	45	4.5	95	25.4	3.0	6.3	120	111	21	67	
	61	1.10	45	4.2	92	24.6	2.7	5.5	117	114	24	69	
U.S. Average	426	1.09	45	4.5	86	23.2	3.1	6.6	109	109	22	61	
	366	1.08	45	4.4	85	22.8	3.2	6.2	105	108	22	62	
Significant dif- ference 2/		0.02	2	0.2	2	0.5	0.5	0.5	4(22s) 2(50s)	5	2	3	

1/
2/ Based on a limited number of samples of modal quality

Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through January 1, 1971 1/

Staple group Area, and Crop year	Lots tested	Fiber test results						Processing test results					
		Fibrograph		Mike fine- ness	Fiber strength		S A nonlint	P & C waste	Yarn quality			Spin. Potent.	
		2.5% span	50/2.5 unif.		Zero gage	1/8" gage			Skein str.	Appear- ance	Imperf- ections		
				Pct.			Rdg.	Mpsi				G/tex	Pct.
		No.	Inches	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	22s	Carded	Yarn	Yarn No.
Long Staple: Southeast 1970 South Central 1970 West 1969 1970	14	1.14	45	4.7	82	23.2	4.5	8.6	109	103	21	65	
	6	1.16	42	4.6	85	23.8	4.5	9.2	102	93	26	62	
	23	1.18	46	4.1	92	26.2	3.0	7.1	135	98	23	79	
	20	1.18	45	3.7	92	26.8	3.5	8.2	134	86	43	75	
	50's Combed Yarn												
Extra Long Staple: West 1969 1970	2	1.44	34	4.2	110	33.4	3.2	7.8	68	115	2		
	2	1.42	32	3.8	111	35.6	2.6	7.7	71	105	7		
	AMERICAN PIMA												
	15	1.46	30	4.0	98	31.5	3.7	7.8	66	114	2		
	16	1.48	31	3.7	99	33.6	3.4	7.7	70	111	4		
Significant dif- ference 2/		0.02	2	0.2	2	0.5	0.5	0.5	4(22s) 2(50s)	5	2	3	

1/ Based on a limited number of samples of modal quality
2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1970

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns									
No	Grade	Stple	32s	Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Poten- tial	
				2.5% span	Unif		Zero	1/8" Gage			Gra	Yel		8s or 74 tx	22sor 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22sor 27 tx	8s or 74 tx	22sor 27 tx		
SOUTHWESTERN AREA																							
CENTRAL TEXAS																							
ITASCA																							
3	SLM	LT	SP	42	30	0.93	45	5.1	90	19.5	5.1	3.1	4	4	100 PERCENT	83	5.6	4.4	120	120	40	23	1/
NORTHWEST TEXAS																							
EDMONSON																							
2	MID	LT	SP	32	31	0.95	45	3.3	80	21.3	6.5	2.6	2	5	70 PERCENT	96	7.3	6.4	110	100	68	38	46
3	SLM	LT	SP	42	31	0.94	45	3.6	86	21.5	6.6	3.3	3	4	6.6	102	7.3	6.3	110	100	78	52	50
FRIONA																							
2	SLM	LT	SP	42	31	0.92	46	3.4	85	21.3	6.3	3.4	3	4	6.6	109	7.0	6.1	120	110	62	38	51
3	SLM	LT	SP	42	30	0.88	47	3.5	88	22.4	6.3	3.5	3	4	7.3	104	7.0	6.3	110	100	86	55	45
HASKELL																							
3	SLM			41	30	0.95	45	4.7	85	20.8	6.7	3.6	3	3	6.3	91	6.8	5.9	120	100	46	30	39
LITTLEFIELD																							
3	MID	LT	SP	32	30	0.89	46	3.9	92	22.8	6.3	2.6	3	4	6.8	96	6.4	5.6	120	110	48	32	40
LUBBOCK																							
2	SLM			41	32	1.02	46	3.8	88	21.6	5.9	3.2	3	3	5.7	102	6.5	6.1	130	120	42	25	56
PADUCAH																							
2	SLM	LT	SP	42	30	0.95	46	4.6	81	20.8	6.9	3.5	4	4	7.0	84	6.1	5.6	120	120	68	38	36
PETERSBURG																							
3	SLM			41	32	0.96	47	4.0	84	21.0	7.2	2.7	2	4	5.7	102	7.4	6.5	120	100	53	33	50
WELLMAN																							
2	MID	LT	SP	32	30	0.94	46	4.2	79	19.5	7.4	2.9	2	4	5.5	93	7.3	6.2	120	110	54	32	48
OKLAHOMA																							
FREDERICK																							
2	MID	LT	SP	32	30	0.90	45	4.8	86	19.7	6.6	2.7	3	4	6.0	83	6.3	5.4	120	120	48	23	35
GOTEBO																							
2	MID	LT	SP	32	30	0.90	45	4.8	84	20.1	6.5	2.7	2	4	5.9	87	6.6	5.6	120	120	38	21	38

1/ Insufficient cotton for spinning potential

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1970

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns																			
Sample Number		Digital Fibrograph	Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint	Color Raw Stock		P & C Waste	Strength			Elongation		Appearance Index		Imprfect'ns		Spin. Poten- tial													
No	Grade	Stple	32s	In	Pct	Rdg	Mpsi	G/tex	Pct	S.A. Non- Lint	Yel	No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No												
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
																						No	Pct	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No
</																																	

1/ Reduced from 51 because of bark

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1970---(Continued)

Production Area, Classification				Fiber Test Results										Processing Test Results - Carded Yarns											
Sample Number				Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Potent- ial			
No	Grade	Stple	2.5% span	Unif.	Zero Gage		1/8" Gage	Pct			No	Yel		27 tx	12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx				
SOUTH CENTRAL AREA---(Continued)																									
MISSISSIPPI																									
CLARKSDALE																									
4	SLM	41	34	1.07	42	4.3	82	22.6	6.0	3.1	2	1	6.3	105	100 PERCENT	36	6.8	5.2	100	80	15	12	62		
GLENDDORA																									
4	LM	51	34	1.08	44	4.4	85	23.0	5.6	3.6	2	2	6.1	101	100 PERCENT	34	6.7	5.2	100	80	18	13	61		
HOLLY SPRINGS																									
4	SLM	41	35	1.12	45	4.3	82	22.7	7.0	3.4	1	2	6.2	110	95 PERCENT	39	7.2	5.8	110	90	12	9	61		
LAKE CORMORANT																									
4	LM	51	35	1.14	44	4.2	86	24.6	6.5	2.6	2	1	6.5	118	100 PERCENT	42	7.4	5.7	100	80	16	12	61		
PANTHER BURN																									
4	SLM	41	35	1.09	41	3.3	84	24.8	6.6	3.4	1	1	7.4	116	100 PERCENT	41	7.7	6.5	80	70	27	22	66		
STOVALL																									
3	LM	51	35	1.13	44	4.1	82	23.2	7.1	3.6	1	2	8.1	114	100 PERCENT	40	7.4	6.0	80	70	30	20	66		
TRALAKE																									
4	LM	51	35	1.13	40	3.1	84	23.8	6.9	3.7	3	1	10.2	102	100 PERCENT	34	6.6	5.2	60	60	60	41	58		
MISSOURI																									
HAYTI																									
3	LM	51	34	1.08	47	4.7	87	20.5	5.8	3.5	3	2	6.1	107	95 PERCENT	36	5.5	4.2	120	90	21	17	65		
PORTAGEVILLE																									
3	SLM	41	34	1.07	46	4.6	82	20.8	6.5	2.6	2	2	5.1	108	95 PERCENT	37	5.9	4.4	120	100	18	14	64		
SENATH																									
3	SLM LT SP	42	34	1.05	46	3.8	80	20.2	6.3	3.3	3	4	6.8	91	100 PERCENT	29	5.5	3.7	110	90	31	23	49		
TENNESSEE																									
HUNTLAND																									
4	SLM	41	34	1.04	44	4.1	85	21.4	5.4	2.4	2	3	6.1	97	80 PERCENT	33	6.6	5.0	100	80	14	15	56		
LEXINGTON																									
4	SLM	41	34	1.01	46	4.5	83	21.5	5.6	2.7	2	3	6.5	97	100 PERCENT	32	6.5	4.9	110	80	16	14	57		

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1970---(continued)

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns									
Sample Number				Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin- Poten- tial	
				2.5% span	Unif.		Zero Gage	1/8" Gage			Pct	Pct		Gra	Yel	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx		22s or 27 tx
No	Grade	Stple	32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No		
SOUTHWESTERN AREA																							
NORTHWEST TEXAS																							
AIKEN																							
3	MID LT SP	32	33	1.04	46	3.3	86	22.4	6.8	1.9	2	4	6.1	113	40	6.3	4.7	90	60	47	37	64	
PAYMASTER IIIA 70 PERCENT																							
LAZBUDDIE																							
2	SLM LT SP	42	32	0.99	48	3.2	84	21.9	6.8	3.4	3	4	7.0	113	39	6.2	4.8	100	80	49	31	55	
3	SLM LT SP	42	32	0.99	46	3.3	87	23.0	6.9	3.4	2	4	7.5	110	39	6.2	4.9	80	70	65	50	57	
PAYMASTER III 90 PERCENT																							
LUBBOCK																							
3	SLM	41	34	1.10	42	3.7	86	22.5	6.6	2.4	2	3	5.9	116	41	6.4	5.2	100	80	32	25	63	
COKER 4104 100 PERCENT																							
RAYLAND																							
1	SLM LT SP	42	32	0.98	47	4.6	93	21.8	5.7	3.9	3	4	7.4	104	31	5.6	3.5	120	90	34	25	47	
LOCKETT 4789A 100 PERCENT																							
SMYER																							
3	SLM	41	32	.97	46	4.2	88	22.8	6.8	3.4	2	3	6.3	105	34	5.7	3.9	120	100	25	19	53	
PAYMASTER 222 75 PERCENT																							
VERNON																							
2	SLM LT SP	42	32	0.98	45	4.8	97	24.1	5.3	4.1	4	4	7.1	98	29	5.3	3.5	110	90	27	21	43	
LOCKETT 8XL 100 PERCENT																							
WELCH																							
3	SLM	41	33	1.05	46	3.3	87	22.8	6.9	3.6	2	3	6.2	113	39	6.2	4.8	100	80	39	32	58	
PAYMASTER III 70 PERCENT																							
OKLAHOMA																							
ALTUS																							
41	35	1.07	43	3.6	79	22.2	8.1	3.1	2	3	6.6	104	35	6.4	4.7	90	70	43	36	61			
DELTAPINE 16 90 PERCENT																							

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1970 --- (Continued)

Production Area, Classification			Fiber Test Results										Processing Test Results - Carded Yarns									
No	Sample Number		Staple	Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imperfect's		Spin. Poten- tial
	Grade	Code		2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
			32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
WESTERN ARIZONA																						
BUCKEYE																						
3	MID		31	34	1.09	45	4.5	83	24.1	6.9	3.0	1	3	100 PERCENT	37	5.9	4.5	120	90	19	15	58
ELOY																						
3	MID		31	34	1.13	40	3.5	81	23.8	7.5	3.2	1	2	100 PERCENT	39	6.6	4.7	100	80	33	28	65
SAFFORD																						
3	MID		31	35	1.13	45	3.6	82	23.2	7.4	2.6	1	3	100 PERCENT	45	6.1	4.9	90	70	39	26	73
YUMA																						
3	SLM		41	33	1.02	44	4.7	89	21.8	6.0	2.8	3	3	100 PERCENT	32	5.0	3.9	100	90	30	23	50
CALIFORNIA																						
BAKERSFIELD																						
3	SLM		41	35	1.13	47	4.4	100	26.4	5.4	3.8	2	3	100 PERCENT	48	5.9	4.6	120	90	19	15	69
WESTMORLAND																						
3	MID		31	34	1.06	43	4.3	90	24.0	6.3	2.2	1	3	100 PERCENT	35	5.6	4.2	120	80	17	13	56
WEST TEXAS																						
PECOS																						
2	SLM		41	35	1.08	43	3.0	85	21.1	6.7	3.1	2	3	100 PERCENT*	37	6.5	4.6	80	60	53	41	64
PECOS																						
3	SLM		41	35	1.07	44	3.6	80	21.1	6.9	2.9	2	2	100 PERCENT*	36	6.5	4.7	100	70	34	32	62

* 100 percent selected for tests, less than 100 percent in the area.

Table 4--Cotton, American upland long staple: Quality characteristics by production areas, crop of 1970

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns									
No	Grade		Style	Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Comber Waste	Strength		Elongation		Appearance Index		Imperfect's		Spin. Potential	
	Name	Code		2.5% span	Unif.		Zero Gage	1/8" Gage			Pct	Pct		Gra	Yel	22s or 27 tx	Lbs	Pct	Pct	22s or 27 tx	50s or 12 tx		22s or 27 tx
32s				In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Pct	Pct	No	No	No	No	No	No	
WESTERN AREA																							
ARIZONA																							
BOWIE																							
3	SLM		41	37	1.21	47	4.2	89	ACALA 1517D	2.1	0	3	80 PERCENT	55	7.0	6.0	100	90	15	9	78		
												*	13.4	157	60	6.7	5.6	110	100	9	6		
NEW MEXICO																							
DEXTER																							
3	MID		31	38	1.21	45	3.4	91	ACALA 1517V	1.9	0	3	100 PERCENT**	55	6.8	5.8	100	80	23	13	70		
												*	14.3	163	61	7.2	5.9	100	100	13	9		
HATCH																							
3	SLM LT SP		42	36	1.19	43	3.1	87	ACALA 1517W	7.2	2	4	72 PERCENT	50	7.0	5.7	70	60	94	70	77		
												*	16.6	148	57	7.5	5.8	70	60	63	50		
WEST TEXAS																							
EL PASO																							
3	SLM LT SP		42	36	1.18	43	3.0	88	ACALA 1517C	4.9	3	4	75 PERCENT	51	6.9	5.9	70	60	78	65	80		
												*	14.6	147	57	7.5	6.2	70	70	49	40		
FORT STOCKTON																							
3	SLM		41	36	1.16	43	3.2	86	ACALA 1517C	3.8	1	3	75 PERCENT	46	6.4	5.4	70	60	37	39	72		
												*	18.0	142	52	6.6	5.4	90	70	20	21		

* Comber Waste and Combed Yarn Data

** 100 percent selected for tests, less than 100 percent in the area.

Table 5 --Cotton, American Pima extra long staple: Quality characteristics by production areas, crop of 1970

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Combed Yarns										
No	Grade	Name & Code	Stple	Array Length		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Comber Waste	Strength		Elongation		Appearance Index		Imprfct'ns			
				UQL	CV		Zero Gage	1/8" Gage			Gra	Yel			50s or 12 tx	80s or 7 tx	50s or 12 tx	80s or 7 tx	50s or 12 tx	80s or 7 tx				
				<u>32s</u>	<u>In</u>	<u>Pct</u>	<u>Rdg</u>	<u>Mpsi</u>	<u>G/tex</u>	<u>Pct</u>	<u>Pct</u>	<u>No</u>	<u>No</u>	<u>Pct</u>	<u>Lbs</u>	<u>Pct</u>	<u>Lbs</u>	<u>Pct</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>		
WESTERN AREA																								
ARIZONA																								
CASA GRANDE																								
2	3	44		1.48	32	3.6	101		PIMA S-4	32.8	6.4	3.8	4	5	9.1	16.1	73	40	6.3	5.5	110	110	4	4
PEORIA																								
2	4	44		1.53	30	3.9	99		PIMA S-4	32.9	6.9	4.5	4	5	9.8	17.4	72	39	6.3	5.3	100	100	4	4
NEW MEXICO																								
LAS CRUCES																								
3	4	46		1.44	34	3.6	99		PIMA S-3	32.2	7.1	3.9	4	6	6.4	20.2	70	38	6.3	5.7	110	110	2	2
WEST TEXAS																								
EL PASO																								
3	4	44		1.44	31	3.2	96		PIMA S-4	31.5	6.9	3.8	5	6	10.3	20.6	67	36	6.4	5.5	100	100	6	6
PECOS																								
3	5	44		1.42	38	2.8	94		PIMA S-4	31.6	6.7	4.9	4	6	7.4	20.2	70	38	6.5	5.7	80	70	16	12